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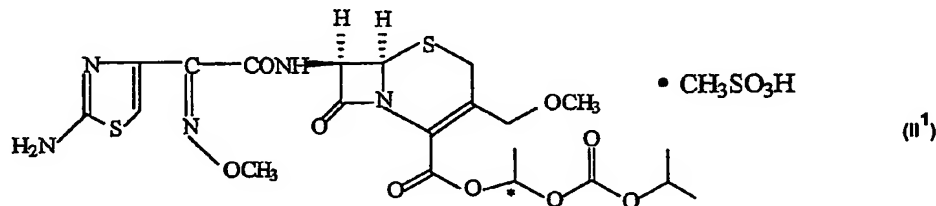
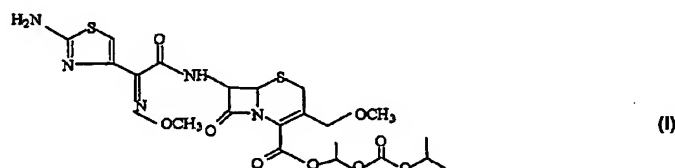
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(54) Title: A PROCESS FOR THE MANUFACTURE OF CEPPODOXIME PROXETIL



(57) Abstract: A process for obtaining cefpodoxime proxetil of formula (I), of high purity conforming to pharmacopoeial specifications is disclosed. The process comprises addition of a solution of methanesulfonic acid in water to a solution of impure cefpodoxime proxetil of formula (I) in an organic solvent to form the corresponding cefpodoxime proxetil methanesulfonate of formula (II'), followed by addition of a co-solvent and separation of the aqueous phase containing cefpodoxime proxetil methanesulfonate of formula (II') having a diastereomeric ratio of (R/R+S) between 0.5 to 0.6 and subsequent neutralization of the methanesulfonate salt (II') with a base to give cefpodoxime proxetil (I) free of impurities and having a diastereomeric ratio of (R/R+S) between 0.5 to 0.6, or, addition of impure cefpodoxime proxetil of formula (I) to a solution of methanesulfonic acid in water to form the corresponding solution of cefpodoxime proxetil methanesulfonate of formula (II') in water, followed by sequential addition of a first organic solvent and a co-solvent and separation of the aqueous phase containing cefpodoxime proxetil methanesulfonate of formula (II') having a diastereomeric ratio of (R/R+S) between 0.5 to 0.6 and subsequent neutralization of the methanesulfonate salt (II') with a base to give cefpodoxime proxetil (I) free of impurities and having a diastereomeric ratio of (R/R+S) between 0.5 to 0.6.

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